

February 5, 2013

Ms. Mary C. Patton, P.E.
Director of Regulatory - NMSD
Range Production Company
100 Throckmorton Street, Suite 1200
Fort Worth, Texas 76102

Re: Implementation Report

Third Quarterly Sampling Event – November/December 2012
Quarterly Residential Well Sampling Project
Parker County, Texas
EarthCon Project No. 02.20120200.00

Dear Ms. Patton:

EarthCon Consultants, Inc. (EarthCon) is pleased to provide Range Production Company (Range) this report documenting implementation of the Third Quarterly Sampling Event of the *Quarterly Residential Well Sampling Project in Parker County, Texas*.

Activities were conducted in accordance with EarthCon's November 14, 2012 *Revised Scope of Work and Cost Estimate for Environmental Consulting Services* (approved on November 15, 2012) and the *Final Quarterly Residential Well Sampling Work Plan*, dated May 7, 2012 (May 2012 Work Plan, see **Attachment 1**) submitted electronically to Range on May 8, 2012. This report specifically documents collection of water samples from residential wells and coordination with analytical laboratories; evaluation and interpretation of associated data are not part of the scope of work, and hence, are not discussed in this report.

1.0 PREPARATORY ACTIVITIES

Upon receiving approval from Range to implement the Third Quarterly Event, EarthCon contacted Accutest Laboratories (Accutest) and Milco Safety Rental to coordinate delivery to EarthCon's offices of needed sample containers, shipping materials and sampling equipment; coordination of delivery of sample containers and shipping materials from Isotech Laboratories (Isotech) was conducted through Mr. Alan Kornacki of Weatherford, a Range consultant.

EarthCon was informed by Range that sampling was to be conducted only on wells for which the property owner had returned an executed consent form to Range; this resulted in the number of wells to be sampled during the third quarterly sampling event to total 16 wells (see **Table 1**). Mary Patton of Range coordinated scheduling of the sampling activities with the property owners and a final schedule was received by EarthCon on November 27, 2012.

2.0 FIELD ACTIVITIES

The EarthCon field crews mobilized to the project area on Thursday November 29, 2012, and commenced preparations for sampling, including acquiring sampling materials and calling the landowners to confirm the visits. Sampling occurred from Friday November 30, 2012 through Sunday December 2, 2012, and was performed in general accordance with protocols presented in detail in the May 2012 Work Plan. Field activities, including packing and demobilization, culminated on Monday December 3, 2012. **Table 1** provides a summary of the samples collected during the third quarterly sampling event.

The field work was conducted in Level D personal protective equipment (PPE), in accordance with a site-specific Health and Safety Plan (HASP), and after health and safety meetings were conducted at the start of each day. Ambient air readings demonstrated a safe environment with no health or safety concerns. No health or safety incidents occurred during EarthCon's sampling activities.

In general, well water samples were collected from existing sampling ports (e.g., spigots, tank inlet pipes, etc.) prior to softening or other modification/treatment of the water stream, using typical protocols presented in Appendix A of the May 2012 Work Plan. At the property owner's request, Ms. Purdue (WW2), and as approved by Range, a new spigot was installed at the well head for sampling purposes on November 30, 2012; a photograph of this installation is included in the well-specific report in **Attachment 2**.

In a few instances, as noted in **Table 1**, pre-treatment water samples could not be obtained due to the manner in which the well and water treatment infrastructure was constructed (i.e., piping from the wellhead was hard-plumbed to a water treatment/softening tank, or there was no ready access to pre-treated water). In such cases, treated water was collected from existing post-treatment spigots, or samples were collected inside treatment tanks at the inlet. In addition, in the cases of wells WW10 and WW18, where samples were collected from a tank inlet, the sample for analysis at Isotech could not be obtained as there was no room to install a hose so that the laboratory-prescribed sampling protocol could be implemented. Additional well water samples were collected for quality control purposes; as shown in **Table 1**, these samples consisted of: a field duplicate (at WW20); a matrix spike/matrix spike duplicate pair (at WW2); two equipment blanks, and two trip blanks (one for each shipped cooler containing samples for analysis of volatile constituents at Accutest).

Samples were labeled, packaged per laboratory instructions, and shipped to Accutest and Isotech via common courier under chain-of-custody documentation. The labels and chain-of-custody forms identified the analyses required for each sample, as established in the May 2012 Work Plan.

Pertinent field observations and measurements were recorded on well-specific field forms, and photographs were taken at each sampling location. The completed field forms and photographic records are grouped per well and presented in **Attachment 2**.

3.0 LABORATORY COORDINATION

EarthCon confirmed receipt of samples at Accutest and Isotech; in addition, for samples submitted for analysis at Accutest, the sample receipt forms were reviewed to verify that samples were received in good condition and were correctly logged for the appropriate analyses.

EarthCon's laboratory coordination activities concluded by verifying that samples submitted to Accutest were analyzed within holding time and that analytical results were provided as requested; analytical data packages and summary tables were directly submitted to Range via electronic mail by Accutest, and are included in **Attachment 3** for ease of reference.

4.0 CLOSING

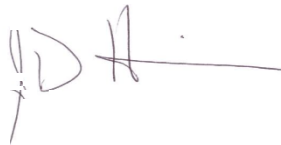
EarthCon appreciates the opportunity to provide environmental consulting services to Range Production Company. Please do not hesitate to contact the undersigned at (281) 240-5200, if you have any questions regarding this report.

Sincerely,

EarthCon Consultants, Inc.



Gabriela P. Floreslovo
Sr. Project Engineer



J.D. Haines, LPG (IN)
Principal Geologist

Enclosures:

Table 1 – Summary of Samples Collected – November/December 2012

Attachment 1 – Copy of April 2012 Work Plan

Attachment 2 – Well-Specific Field Forms and Photographic Records

Attachment 3 – Well-Specific Data Packages and Summary Tables (as submitted by Accutest)

Table 1
Summary of Samples Collected
November/December 2012